



CITY OF WEST LINN

2013 Library Parking Expansion

PW-13-08

BID DOCUMENTS



CITY OF WEST LINN
22500 SALAMO ROAD
WEST LINN, OREGON 97068
WWW.WESTLINNOREGON.GOV
PHONE: (503) 567-0331
FAX: (503) 650-9041



CONTRACTOR
NAME: -N/A
ADDRESS: -N/A
PHONE: -N/A
FAX: -N/A

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GENERAL NOTES

1. All construction shall conform to the latest City of West Linn Public Works Standards and manufacturer's specifications.
2. This set of plans has been reviewed for compliance with City of West Linn requirements prior to issuance for construction. However such review shall not prevent the City Engineer from requiring correction of errors or omissions in plans found to be in violation of any law or ordinance.
3. The City Engineer does not warrant any quantities shown on these plans.
4. The Engineering Division, Inspection Section shall be notified twenty-four (24) hours prior to any construction work by telephone at 503-722-5501. Any work concealed without inspection shall be subject to removal and replacement at the Contractor's expense.
5. Any approved set of plans must be available on the job site at all times. The contractor's representative (capable of communicating with the City's representatives) shall be on the job at all times the work is being pursued.
6. The Contractor is responsible to provide emergency telephone numbers to the City of West Linn at time of receiving Project to Proceed Notice and have personnel available 24-hours a day to respond to emergencies. If the City is required to respond and make emergency repairs on behalf of the Contractor, the Contractor is responsible to reimburse the City for all costs incurred.
7. It is the Contractor's sole responsibility to verify the presence and location of all existing utilities that may interfere with this construction, whether or not said utilities are shown on the construction plans for this project and to adequately protect and maintain any such utilities.
8. Contractor shall submit a detail construction schedule to the City Engineering Division for review and acceptance prior to construction.

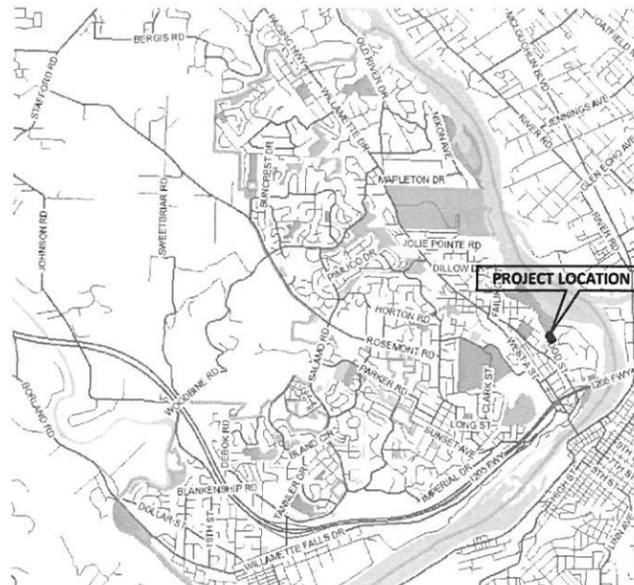
TRAFFIC CONTROL GENERAL NOTES

1. No road closure shall be allowed without City Engineer's prior approval as delegated by the City Manager.
2. Traffic control shall conform to the ODOT Temporary Traffic Control Handbook and MUTCD. The Contractor shall submit a Traffic Control Plan to the City of West Linn Engineering Division for review and acceptance a minimum of 48-hours prior to construction. A copy of the accepted Traffic Control Plan must remain on the job site at all times.

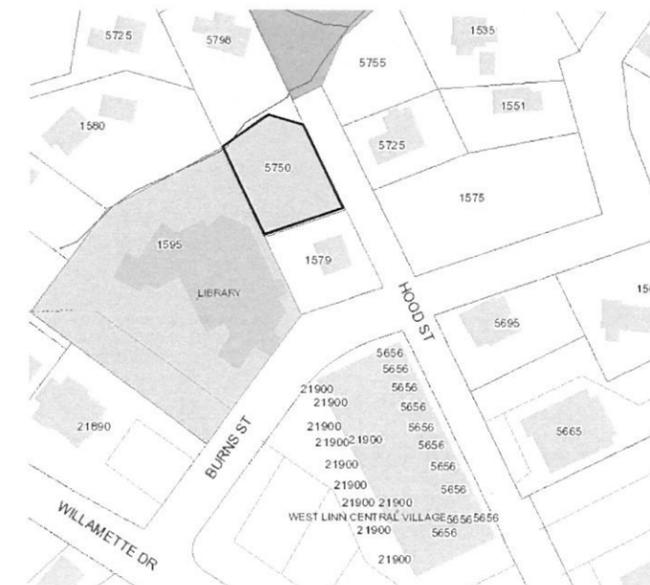
WORKING HOURS

7:00 AM - 7:00 PM Monday - Friday
9:00 AM - 5:00 PM Saturday - Sundays & Holidays

Vinicity Map



Site Location



UTILITY PROVIDERS

WATER:	CITY OF WEST LINN	PUBLIC WORKS	503-656-6081
STORM:	CITY OF WEST LINN	PUBLIC WORKS	503-656-6081
SEWER:	CITY OF WEST LINN	PUBLIC WORKS	503-656-6081
POWER:	PGE	BOBBIE DANIELSON	503-742-8483
STREET LIGHTS:	PGE	LORI SWANSON	503-742-8322
GAS:	NW NATURAL	DAVID BENTON	503-226-4211x2357
CATV:	COMCAST	BOB BOBMILLAR	360-828-3559
PHONE:	QWEST	KENNETH SCIULLI	503-242-0304

GENERAL NOTE

All work within the public right-of-way shall conform to the current City of West Public Works Design Standards, Standard Construction Specifications, and Standard Drawings.

GIS BASE MAP INFORMATION

Data Source: West Linn GIS
OGIC Disclaimer: This product is for informational purposes and may not have been prepared for, or be suitable for legal, engineering, or surveying purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of the information.



811
Know what's below.
Call before you dig.

ATTENTION

Oregon law requires you to follow rules adopted by the Oregon Utility Notification Center. Those rules are set forth in OAR 952-001-0010 through OAR 952-001-0090. You may obtain copies of the rules by calling the center. (Note: the telephone number for the Oregon Utility Notification Center is (503) 232-1987).

Library Parking Expansion

Cover Sheet

PROJECT NO.: PW-13-08
DESIGNED BY: KLE
DRAWN BY: KLE
CHECKED BY: L CALVERT
DATE: JULY 1, 2013

REVISION	
DATE	DESCRIPTION

COVER SHEET

CS

BEING A PORTION OF PARCEL 2
 PARTITION PLAT NO. 1993-61
 IN THE NW 1/4 SEC. 30, T.2S., R.2E., W.M.
 CITY OF WEST LINN
 CLACKAMAS COUNTY, OREGON
 JUNE 19, 2007 MAP 2 2E 30BD



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LEGEND:

- FOUND MONUMENT AS NOTED
- I.R. IRON ROD
- I.P. IRON PIPE
- W/YPC WITH YELLOW PLASTIC CAP
- ☐ WATER METER
- UUT— MULTIPLE UNDERGROUND UTILITIES - TV, QLN, PGE
- W— WATER LINE
- G— NATURAL GAS LINE
- ☐ MAILBOX
- X0.0GRND SPOT ELEVATION GROUND
- X0.00EP SPOT ELEVATION EDGE OF PAVEMENT
- X0.00EC SPOT ELEVATION EDGE OF CONCRETE
- X0.00CL SPOT ELEVATION CENTERLINE ROAD
- X0.00TC SPOT ELEVATION TOP OF CURB
- X0.00FL SPOT ELEVATION FLOWLINE

NOTES:

1. ELEVATIONS ON NGVD 1929 DATUM, DETERMINED USING GPS.
2. THE BOUNDARIES AS SHOWN ON THIS MAP ARE APPROXIMATE ONLY. THIS MAP DOES NOT REPRESENT A SURVEY TO BE RECORDED, BUT WAS DONE FOR SITE/TOPO INFORMATION ONLY.
3. THIS SURVEY IS MADE FOR THE ORIGINAL PURCHASER OF THE SURVEY ONLY. ANDY PARIS & ASSOCIATES, INC. ASSUMES NO LIABILITY FOR INFORMATION SHOWN HEREON TO ANY OTHER INSTITUTIONS OR SUBSEQUENT PURCHASERS OF THE PROPERTY.
4. SURVEY IS VALID ONLY IF PRINT HAS SEAL AND SIGNATURE OF SURVEYOR.
5. NO ATTEMPT HAS BEEN MADE AS A PART OF THIS SURVEY TO OBTAIN OR SHOW DATA CONCERNING EXISTENCE, SIZE, DEPTH, CONDITION, CAPACITY, OR LOCATION OF ANY UTILITY OR MUNICIPAL/PUBLIC SERVICE FACILITY. FOR INFORMATION REGARDING THESE UTILITIES OR FACILITIES, PLEASE CONTACT THE APPROPRIATE AGENCIES.
6. THE LOCATION AND OR EXISTENCE OF UTILITY SERVICE LINES TO THE PROPERTY SURVEYED ARE UNKNOWN AND ARE NOT SHOWN.
7. SUBSURFACE AND ENVIRONMENTAL CONDITIONS WERE NOT EXAMINED OR CONSIDERED AS A PART OF THIS SURVEY. NO STATEMENT IS MADE CONCERNING THE EXISTENCE OF UNDERGROUND OR OVERHEAD CONTAINERS OR FACILITIES THAT MAY AFFECT THE USE OR DEVELOPMENT OF THIS TRACT.
8. THIS SURVEY DOES NOT CONSTITUTE A TITLE SEARCH BY SURVEYOR. THERE MAY EXIST EASEMENTS, CONDITIONS, OR RESTRICTIONS THAT COULD AFFECT THE TITLE OF THIS PROPERTY. NO ATTEMPT HAS BEEN MADE IN THIS SURVEY TO SHOW SUCH MATTERS THAT MAY AFFECT TITLE.
9. LOCATION OF MADDAX CREEK SHOWN ON THIS PLAN IS NOT PART OF THE SURVEY WORKS DONE BY ANDY PARIS AND ASSOCIATES, INC. MADDAX CREEK LOCATION IS DRAWN IN BY CITY OF WEST LINN ENGINEERING DIVISION BASED ON GIS INFORMATION.

Library Parking Expansion

Existing Conditions Plan

PROJECT NO.: PW-13-08
 DESIGNED BY: KLE
 DRAWN BY: KLE
 CHECKED BY: LCALVERT
 DATE: JULY 1, 2013

REVISION
 DATE DESCRIPTION

EXISTING CONDITIONS

C1.1

REGISTERED
 PROFESSIONAL
 LAND SURVEYOR

OREGON
 JANUARY 15, 1987
 HAROLD P. SALO
 2284
 EXPIRES: JUNE 30, 2008

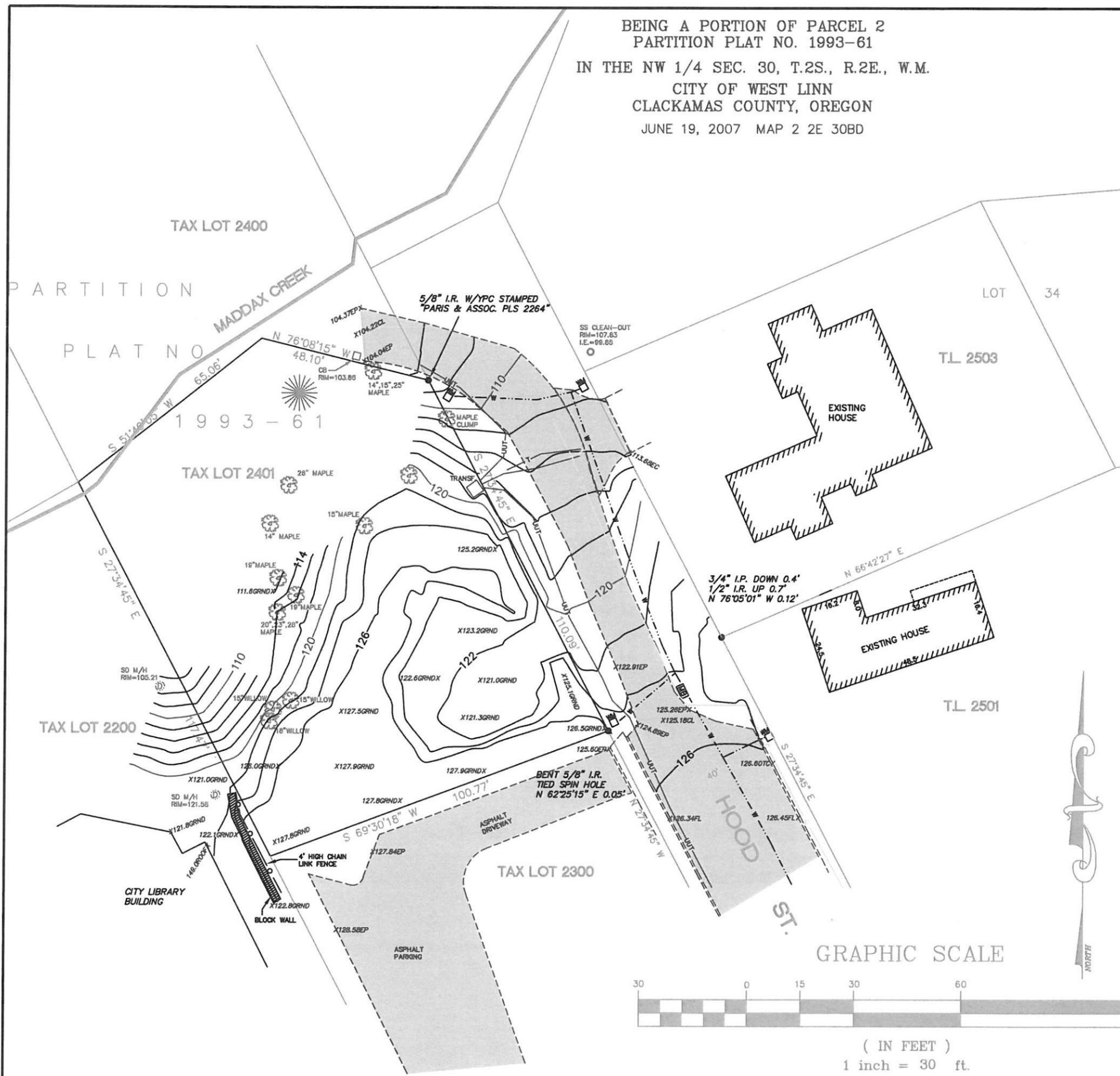
SURVEYED BY:
 ANDY PARIS AND ASSOCIATES, INC.
 16057 BOONES FERRY ROAD
 LAKE OSWEGO, OREGON 97035
 PH: 503-636-3341

PROJECT: 07005
 DRAWING: 07005TP1.DWG

GRAPHIC SCALE



(IN FEET)
 1 inch = 30 ft.





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EXPIRED: 12/31/2013

CONTRACTOR

NAME: -N/A
 ADDRESS: -N/A
 PHONE: -N/A
 FAX: -N/A

Library Parking Expansion

Demolition Plan

PROJECT NO.: PW-13-08
 DESIGNED BY: KLE
 DRAWN BY: KLE
 CHECKED BY: LCALVERT
 DATE: JULY 1, 2013

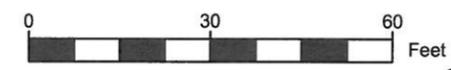
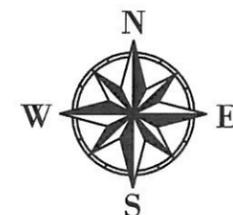
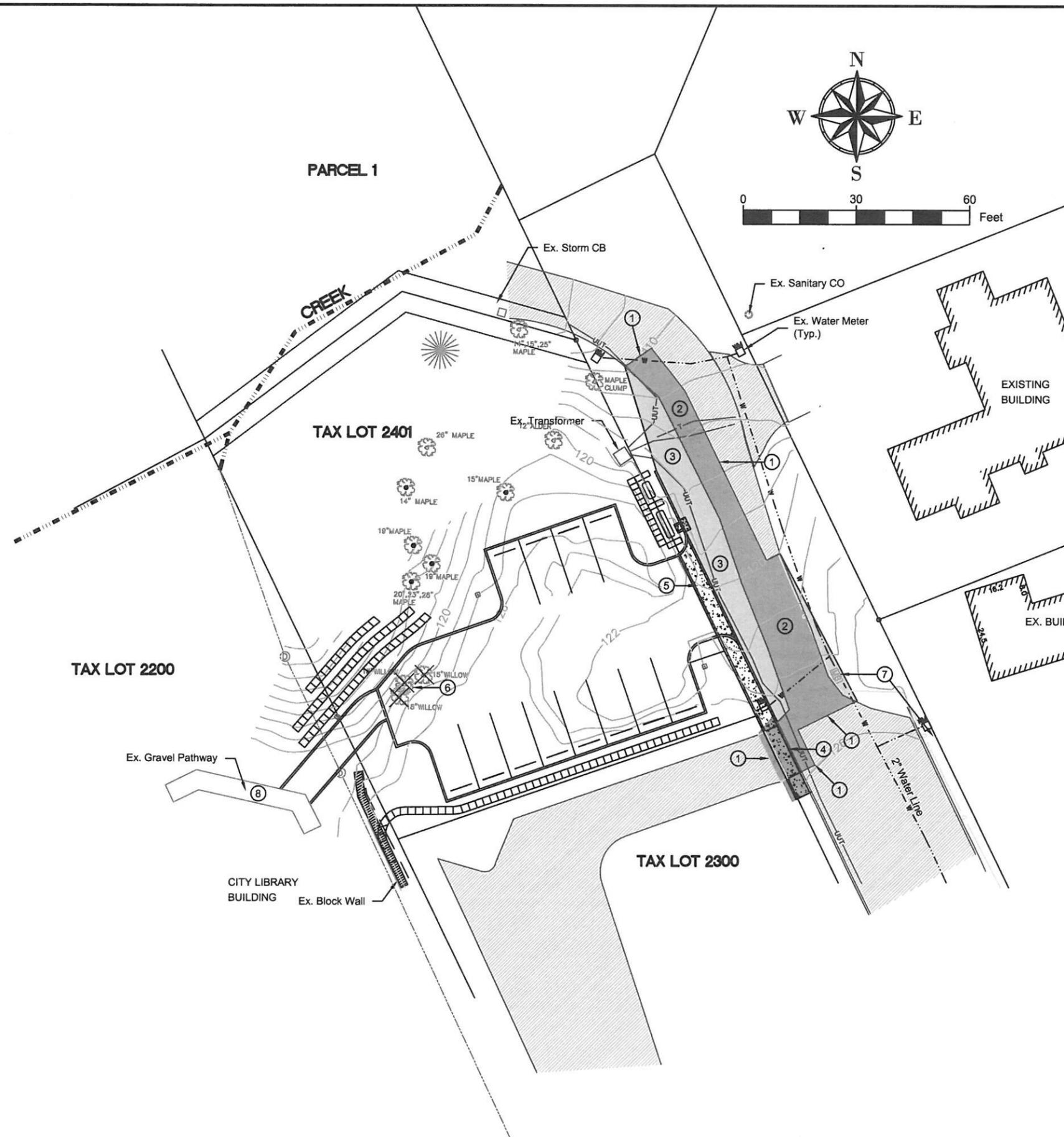
REVISION	
DATE	DESCRIPTION

DEMOLITION

C2.1

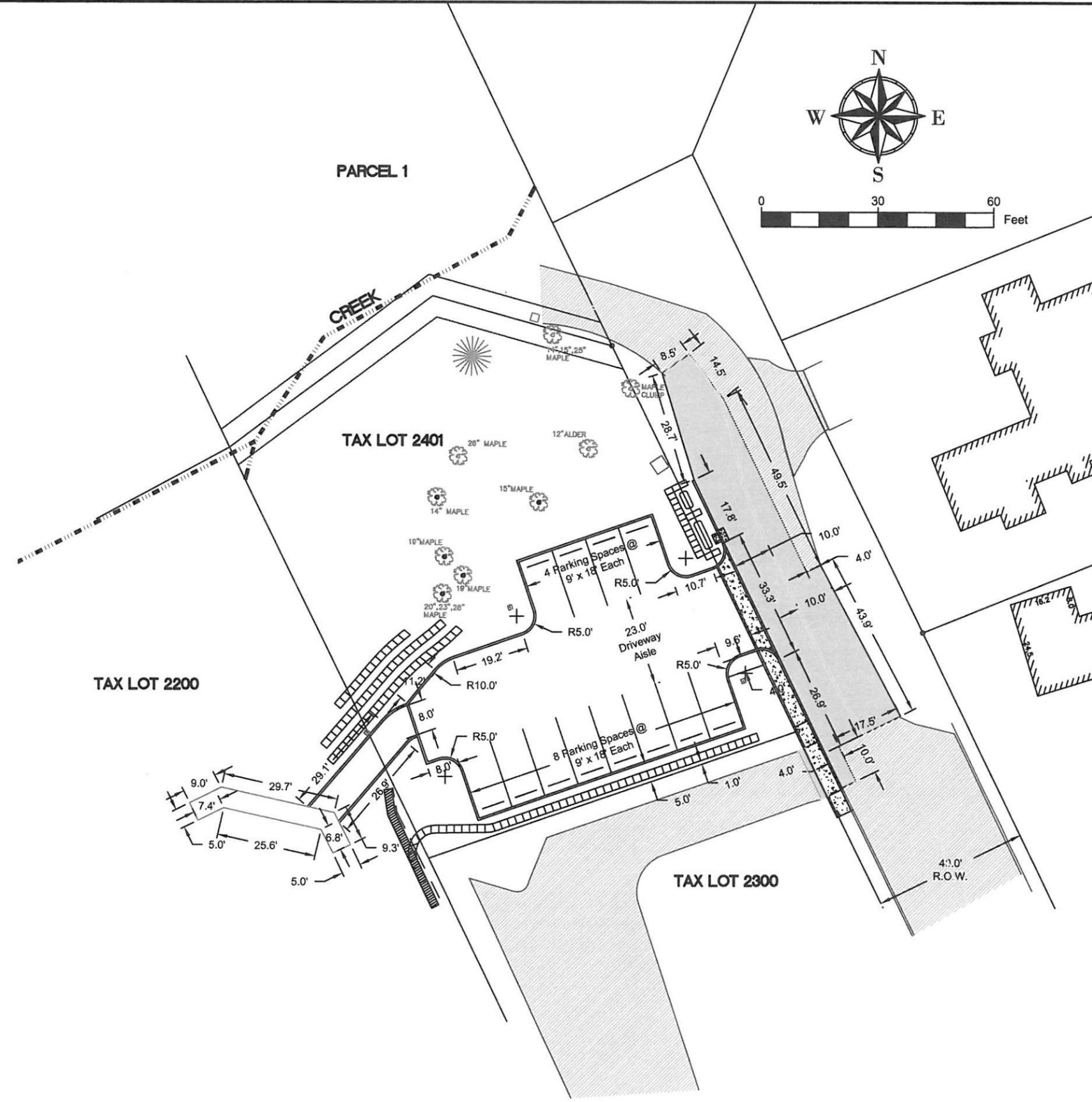
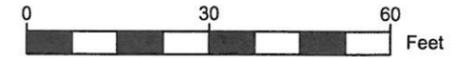
DEMOLITION NOTES

- ① SAW CUT LINE.
 LENGTH = 110 LF.
- ② EXISTING AC PAVEMENT TO BE REMOVED.
 EXCAVATE TO DEPTH OF 16". PREPARE
 SUBGRADE FOR PAVEMENT IMPROVEMENT.
 FOR DETAIL SEE SHEET C3.2 AND C3.3.
 AREA = 1100 SQ.FT. = 125 SQ.YD.
- ③ REMOVED EXISTING SURFACE
 EXCAVATE TO DEPTH OF 16". PREPARE
 SUBGRADE FOR PAVEMENT IMPROVEMENT.
 FOR DETAIL SEE SHEET C3.2 AND C3.3.
 AREA = 650 SQ.FT. = 75 SQ.YD.
- ④ REMOVE EXISTING AC DRIVEWAY APPROACH.
 EXCAVATE TO DEPTH OF 8". PREPARE
 SUBGRADE FOR CONCRETE DRIVEWAY
 APPROACH AND SIDEWALK.
 FOR DETAIL SEE SHEET C3.2 AND C3.3.
 AREA = 110 SQ.FT. = 15 SQ.YD.
- ⑤ REMOVE EXISTING SURFACE.
 EXCAVATE TO DEPTH OF 8". PREPARE
 SUBGRADE FOR CONCRETE DRIVEWAY
 APPROACH AND SIDEWALK.
 FOR DETAIL SEE SHEET C3.2 AND C3.3.
 AREA = 110 SQ.FT. = 15 SQ.YD.
- ⑥ GROUP OF TREES TO BE REMOVED.
- ⑦ EX. MAIL BOX TO BE RELOCATED NEXT.
- ⑧ EX. GRAVEL PATH TO BE REMOVED AND
 REPLACE WITH PAVERS.
 AREA = 220 SQ.FT. = 30 SQ.YD.





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EXPIRED: 12/31/2013

CONTRACTOR
 NAME: -N/A
 ADDRESS: -N/A
 PHONE: -N/A
 FAX: -N/A

Library Parking Expansion
 Dimensioning Plan

PROJECT NO.: PW-13-08
 DESIGNED BY: KLE
 DRAWN BY: KLE
 CHECKED BY: LCALVERT
 DATE: JULY 1, 2013

REVISION	
DATE	DESCRIPTION

DIMENSIONING
C3.1

CONSTRUCTION NOTES

- 1 CONSTRUCT PAVEMENT IMPROVEMENT WITH ROCK BASE. FOR INFORMATION SEE STREET CROSS SECTION DETAIL ON SHEET C3.3.

AREA = 1870 SFT
VOLUME = 1870 CFT = 70 CYD
- 2 CONSTRUCT STANDARD STRAIGHT CURB. SEE WL-501 FOR DETAIL ON SHEET C3.3.

LENGTH = 360 LF
- 3 CONSTRUCT COMMERCIAL DRIVEWAY APPROACH. SEE WL-504B FOR DETAIL ON SHEET C3.3. RECONSTRUCTION ASPHALT DRIVEWAY AS NEEDED.

LENGTH = 15 LF AREA = 60 SFT
- 4 CONSTRUCT COMMERCIAL DRIVEWAY APPROACH. SEE WL-504B FOR DETAIL ON SHEET C3.3.

LENGTH = 33 LF AREA = 132 SFT
- 5 CONSTRUCT 4' CURB TIGHT CONCRETE SIDEWALK. SEE WL-508 FOR DETAIL ON SHEET C3.3. MATCH EX. SIDEWALK WHERE NEEDED. SIDEWALK INCLUDING DRIVEWAY APPROACH WINGS SHALL BE ADA ACCESSIBLE.

AREA = 125 SFT
- 6 CONSTRUCT PARKING LOT WITH PERMEABLE PAVERS. SEE PERMEABLE PAVER CROSS SECTION DETAIL. FOR INFORMATION SEE PHYSICAL DIMENSION DETAIL ON SHEET C3.3.

AREA = 3950 SFT
- 7 CONSTRUCT 8' PATH WITH PERMEABLE PAVERS. SEE PERMEABLE PAVER CROSS SECTION DETAIL. FOR INFORMATION SEE PHYSICAL DIMENSION DETAIL ON SHEET C3.3.

AREA = 260 SFT
- 8 REMOVE EXISTING GRAVEL PATH AND REPLACE WITH PERMEABLE PAVERS WITH BEDDING AND APPROVED EDGING. FOR INFORMATION SEE PHYSICAL DIMENSION ON SHEET C3.3.

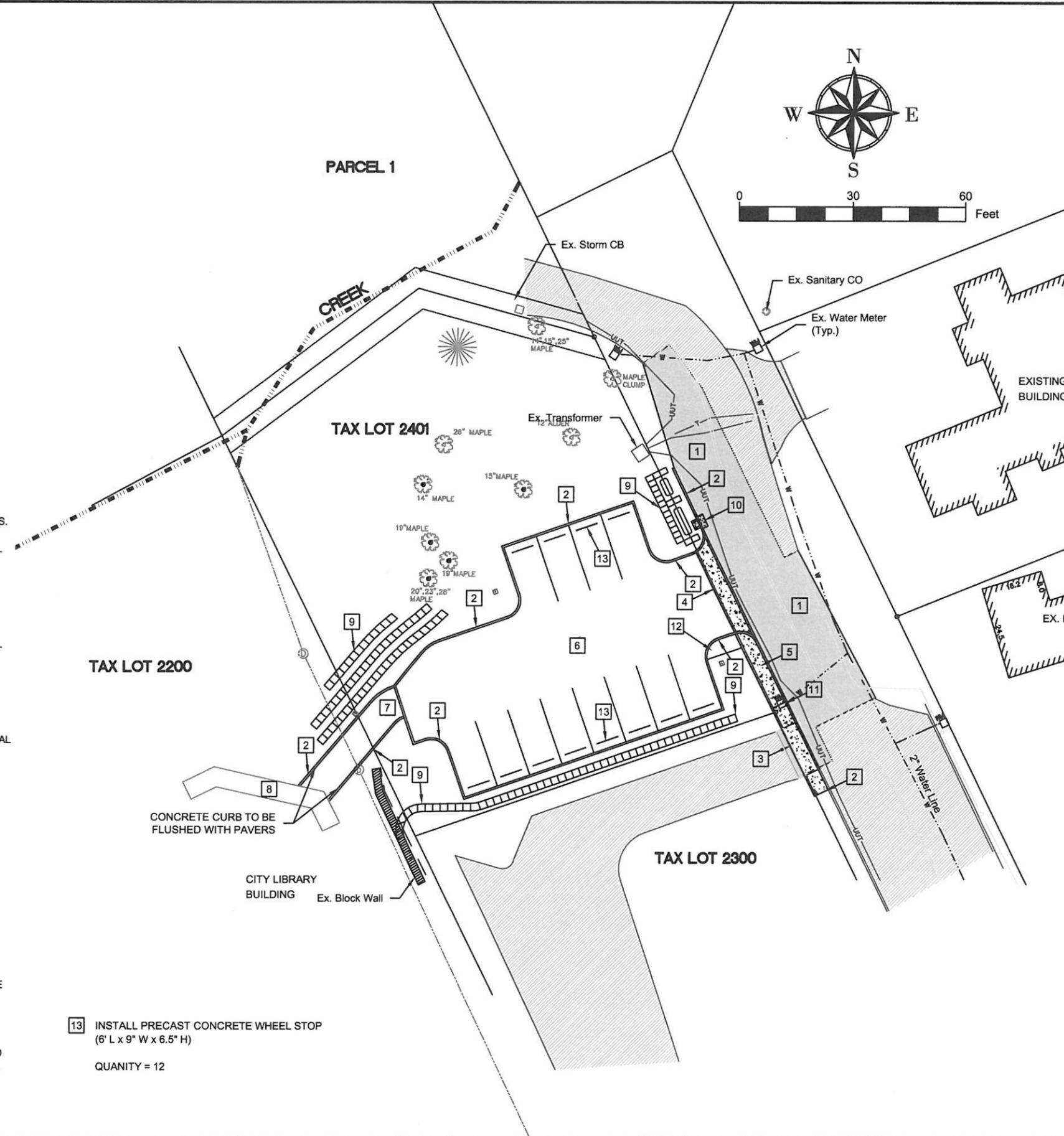
AREA = 220 SFT
- 9 CONSTRUCT KEYSTONE WALL. STANDARD 21 UNIT - TRIPLANE FACE OR EQUALLY APPROVED. SEE GRADING PLAN SHEET C4.1 FOR APPROPRIATE ELEVATIONS.

AREA = 610 SFT
- 10 CONSTRUCT RAIN GARDEN, INSTALL PLANTS, AND CURB CUT. FOR DETAIL SEE SHEET C3.3 AND C4.3.
- 11 PRESERVE EX. WATER METER. RESET WATER METER BEHIND CURB IN ACCORDANCE WITH WL-402. SEE DETAIL ON SHEET C3.3.
- 12 CONSTRUCT 4' PATH WITH PERMEABLE PAVERS WITH BEDDING AND APPROVED EDGING. SEE PERMEABLE PAVER CROSS SECTION DETAIL AND FOR INFORMATION SEE PHYSICAL DIMENSION DETAIL ON SHEET C3.3.

AREA = 40 SFT

- 13 INSTALL PRECAST CONCRETE WHEEL STOP (6' L x 9" W x 6.5" H)

QUANTITY = 12



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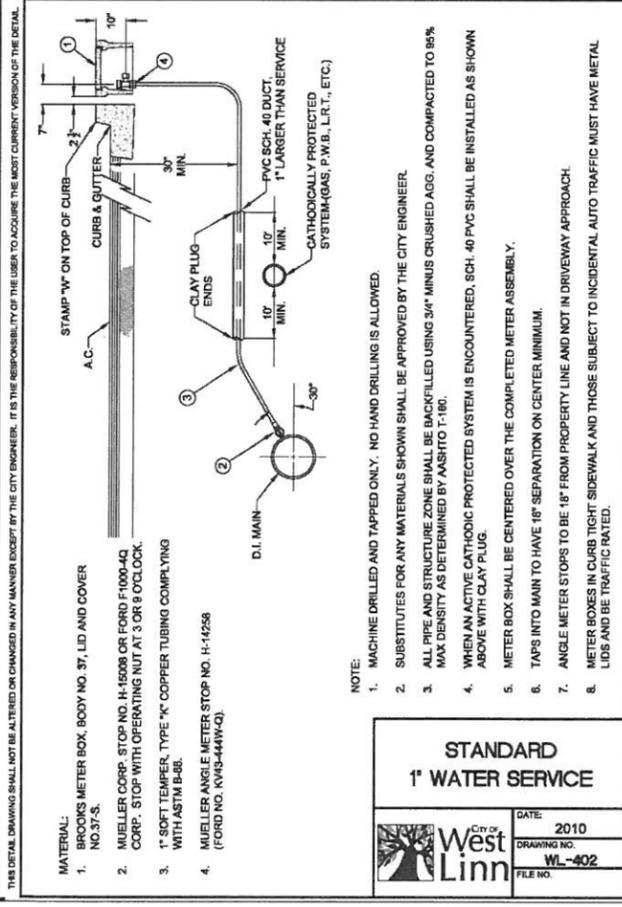
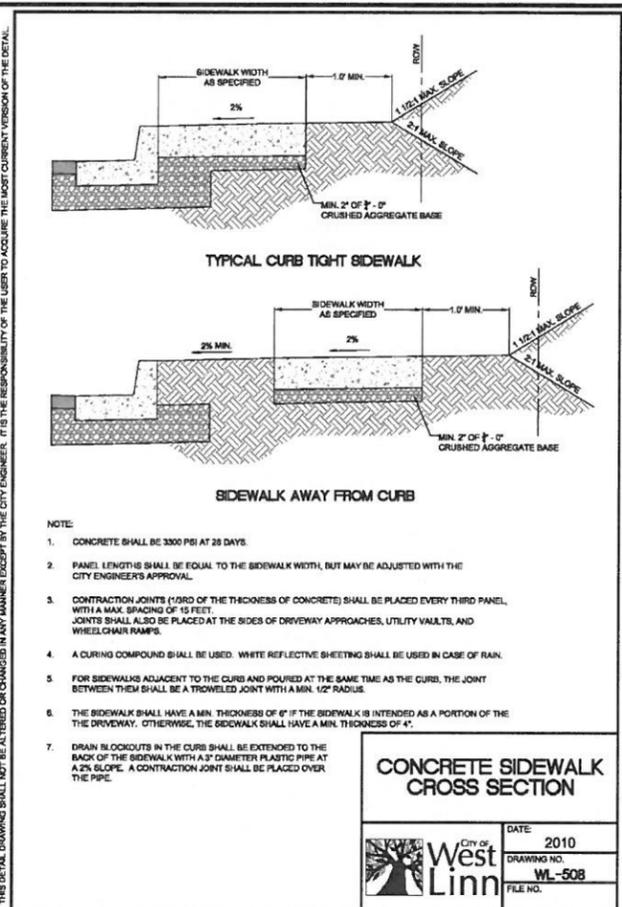
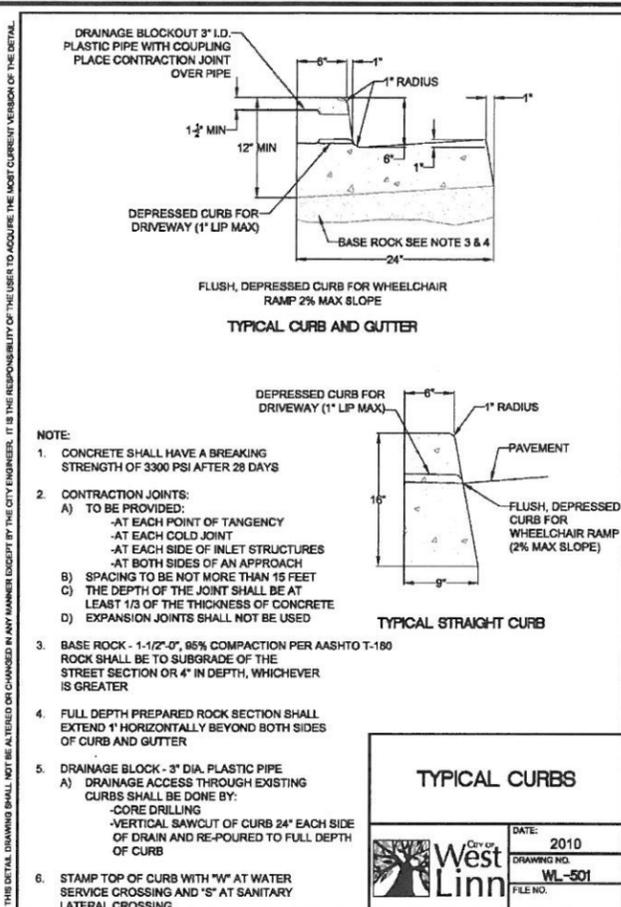
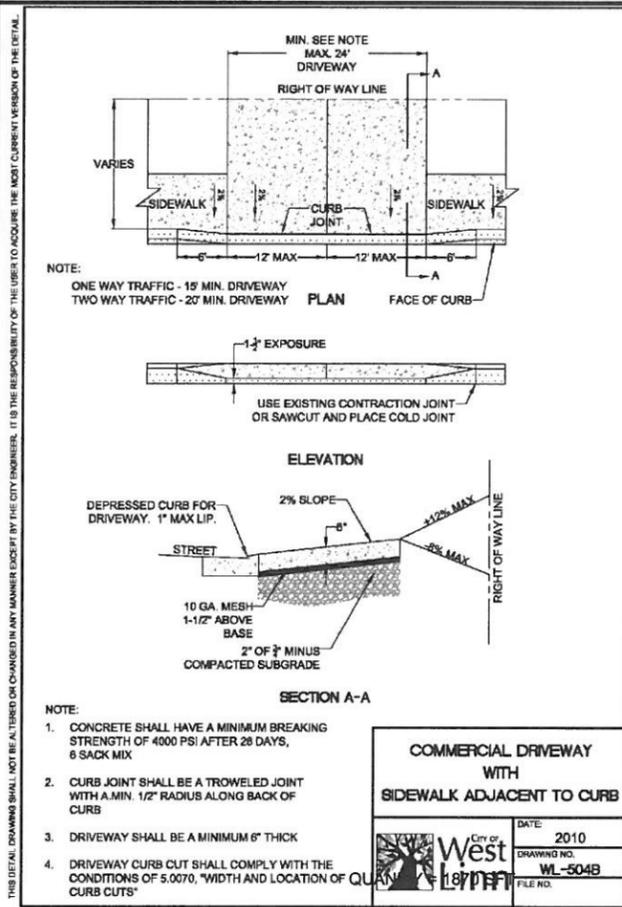
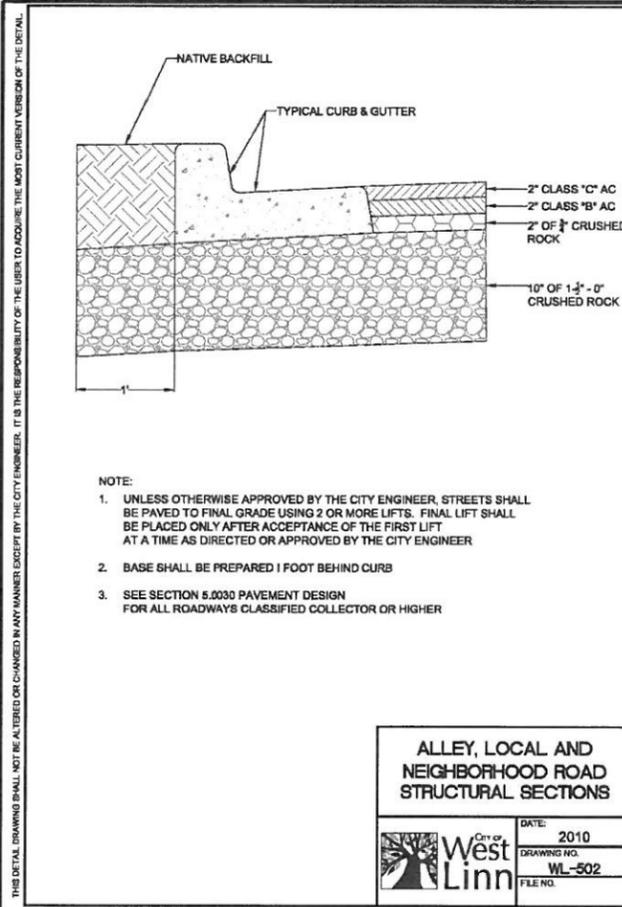
CONTRACTOR
NAME: -N/A
ADDRESS: -N/A
PHONE: -N/A
FAX: -N/A

Library Parking Expansion
Site Plan

PROJECT NO.: PW-13-08
DESIGNED BY: KLE
DRAWN BY: KLE
CHECKED BY: L CALVERT
DATE: JULY 1, 2013

REVISION	
DATE	DESCRIPTION

SITE
C3.2



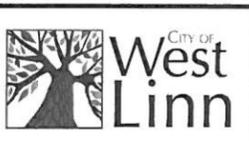
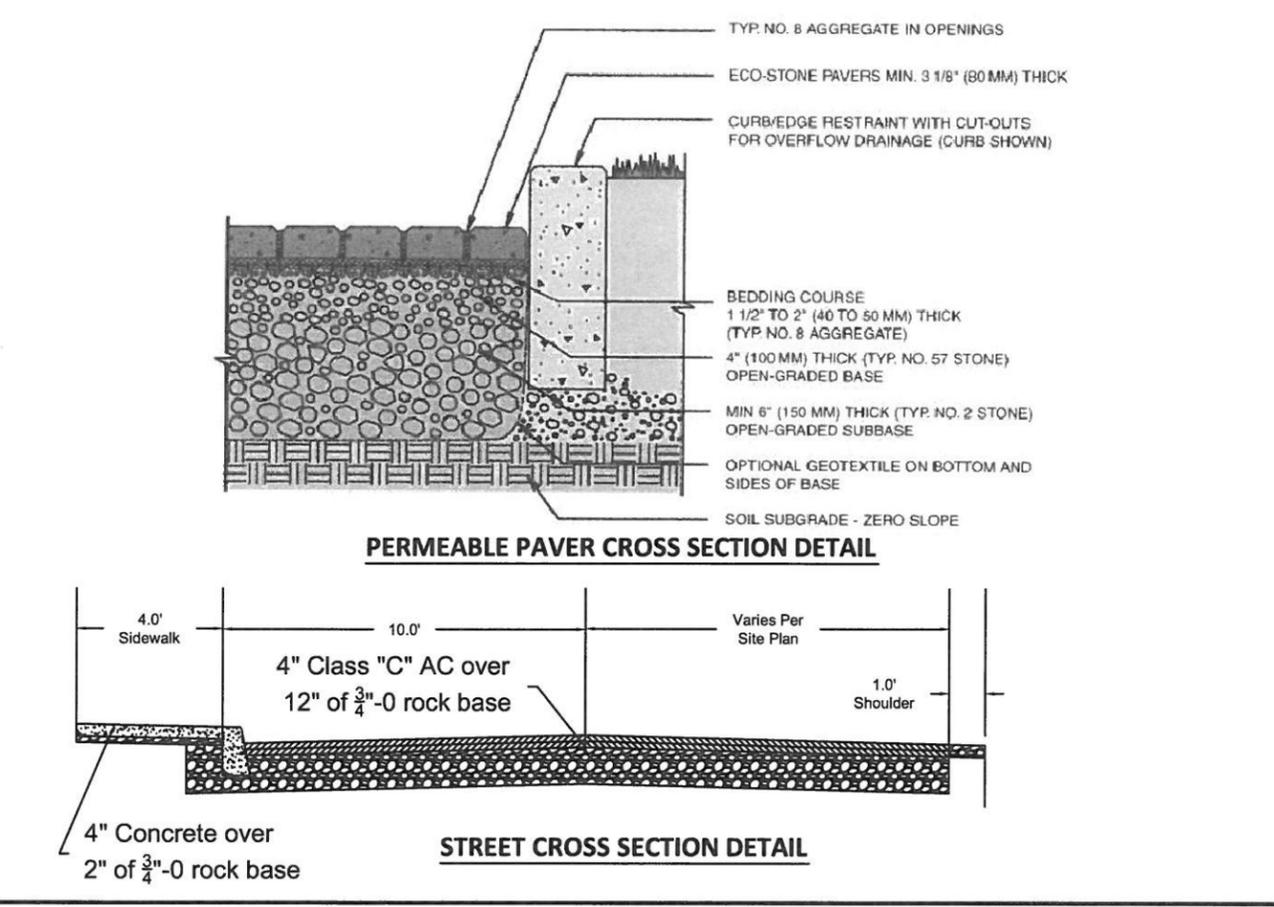
Physical Characteristics

Height/Thickness	3.125" = 80mm
Width	4.75" = 120mm
Length	9.5" = 240mm
Pavers per sq ft	= 3.28

Composition and Manufacture

Minimum compressive strength - 8000psi
Maximum water absorption - 5%
Meets or exceeds ASTM C-936 and freeze-thaw testing per section 8 of ASTM C-67.

Note: Eco-Priora may be made in different size rectangles and squares. Check with your local manufacturer for sizes and shapes.

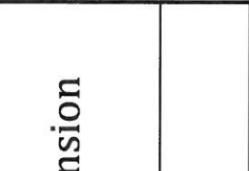


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Library Parking Expansion

Site Details

PROJECT NO.: PW-13-08
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REVISION	
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SITE DETAILS

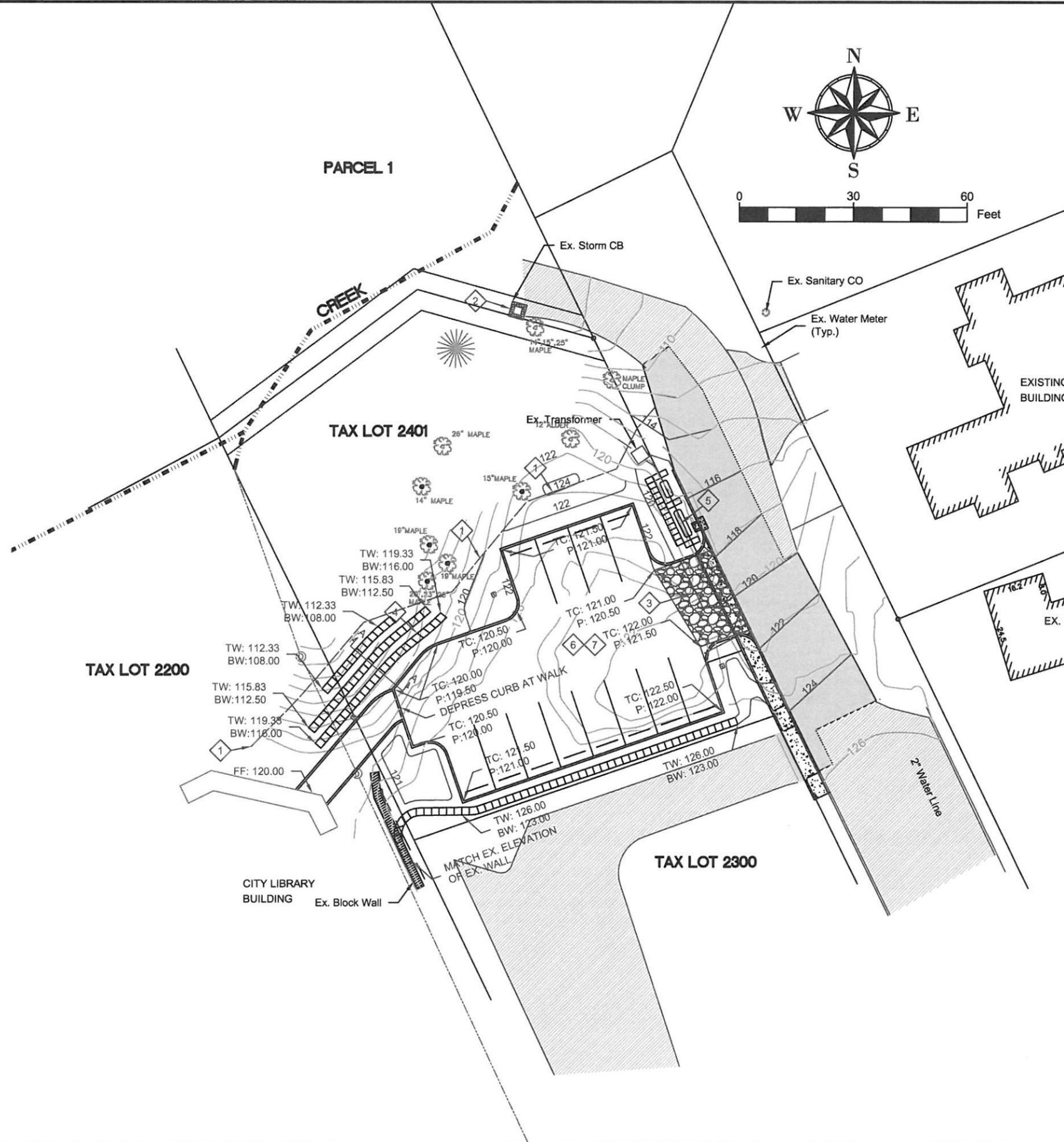
C3.3

GRADING NOTES

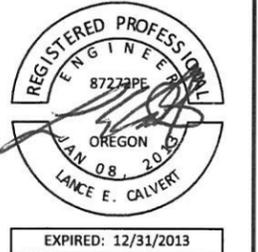
- 1 INSTALL SEDIMENTATION FENCE PRIOR TO CONSTRUCTION. SEE DETAIL ON SHEET C4.3.
- 2 INSTALL (4) BIO-BAGS TO PROTECT EXISTING INLET PRIOR TO CONSTRUCTION. SEE DETAIL ON SHEET C4.3.
- 3 INSTALL 20 FOOT DEEP CONSTRUCTION GRAVEL ENTRANCE PRIOR TO CONSTRUCTION. SEE DETAIL ON SHEET C4.3.
- 4 INSTALL KEYSTONE RETAINING WALL. REFER TO MANUFACTURER DETAIL FOR INSTALLATION. ON SHEET C4.3, C4.4, AND C4.5.
- 5 INSTALL RAIN GARDEN PER WL-617 DETAIL ON SHEET C4.3. SEE RAIN GARDEN CROSS SECTION ON SHEET C4.2. NO OVERFLOW PIPE NEEDED.
- 6 STRIP, REMOVE, AND HAUL OFF A MIN. 1' OF EXISTING GROUND SURFACE. REMOVE ALL ORGANIC MATERIAL FROM THE REST OF EXCAVATED DIRT FOR GRADING.
- 7 IF ADDITION BACKFILL NEEDED, CLASS "A" BACKFILL CAN BE USED. COMPACT TO 90% OF AASHTO T-180.

KEY

TC = TOP OF CURB
 P = PAVEMENT ELEVATION
 TW = TOP OF WALL
 BW = BOTTOM OF WALL, EXPOSED FINISHED GRADE



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Library Parking Expansion

Grading and Erosion Control Plan

PROJECT NO.: PW-13-08
 DESIGNED BY: KLE
 DRAWN BY: KLE
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 DATE: JULY 1, 2013

REVISION	
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GRADING AND EROSION CONTROL
C4.1



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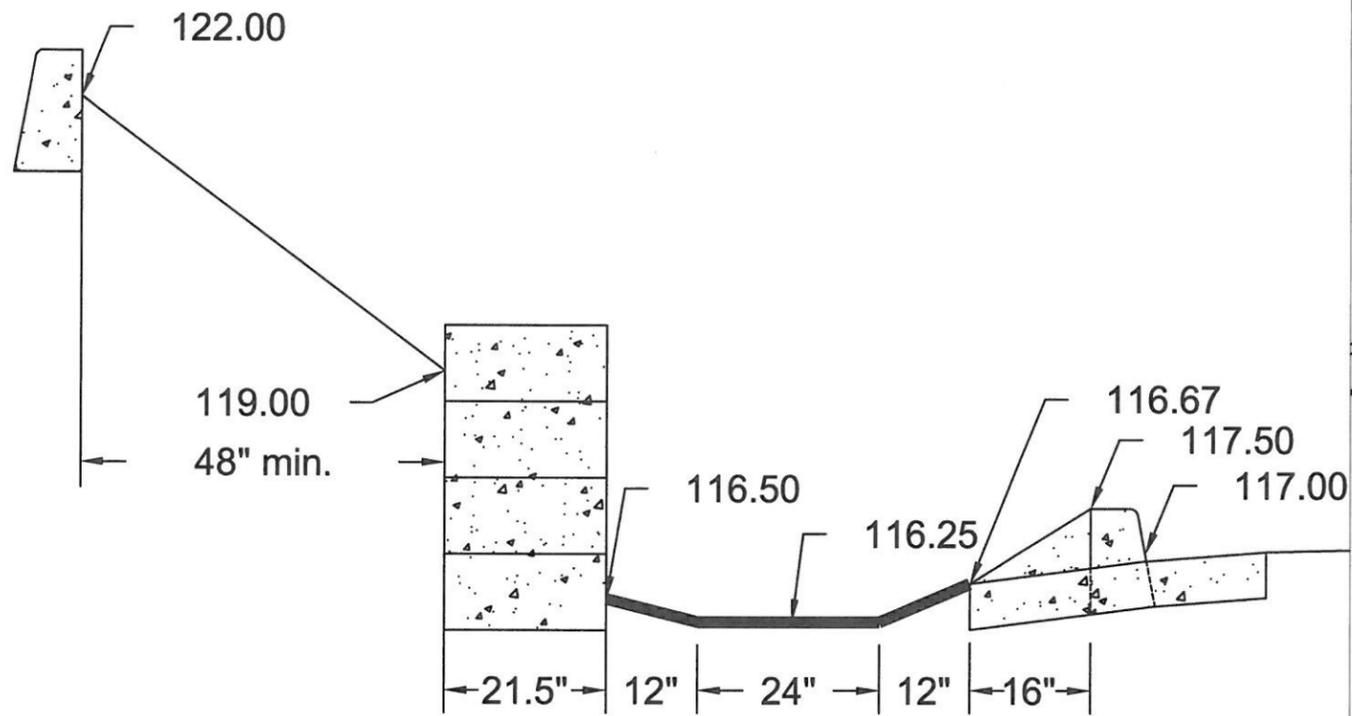
Library Parking Expansion
 Rain Garden Grading & Cross Section Plan

PROJECT NO.: PW-13-08
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 DRAWN BY: KLE
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 DATE: JULY 1, 2013

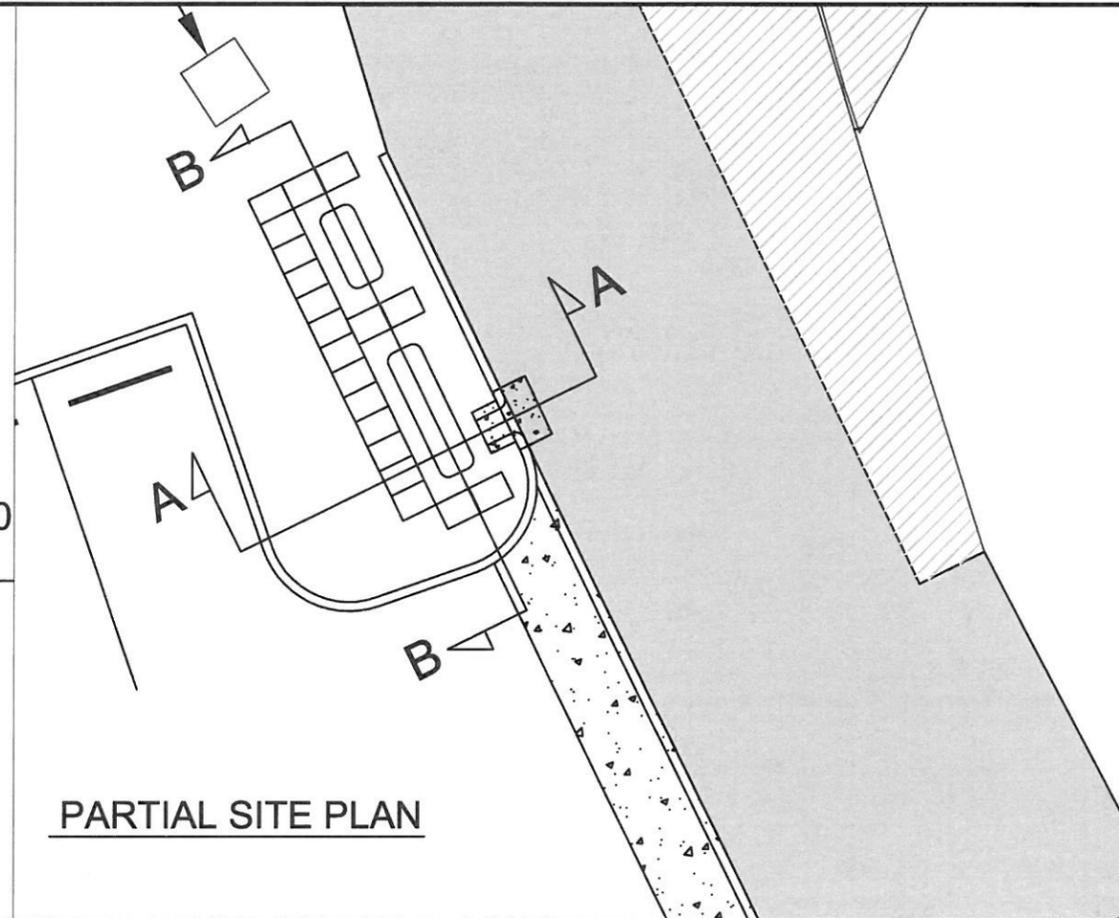
REVISION	
DATE	DESCRIPTION

GRADING AND EROSION CONTROL

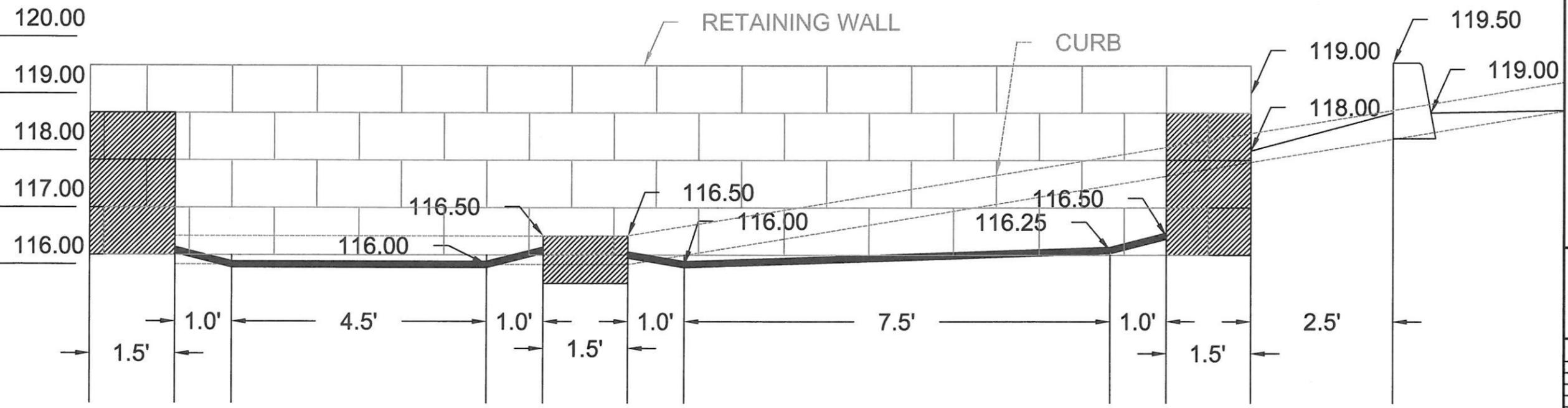
C4.2



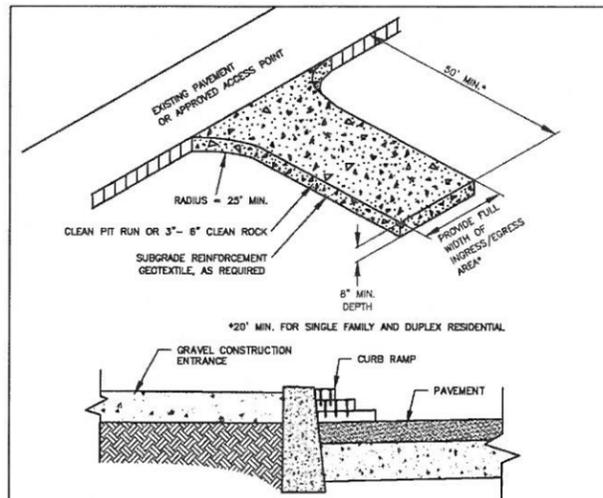
CROSS SECTION A-A



PARTIAL SITE PLAN



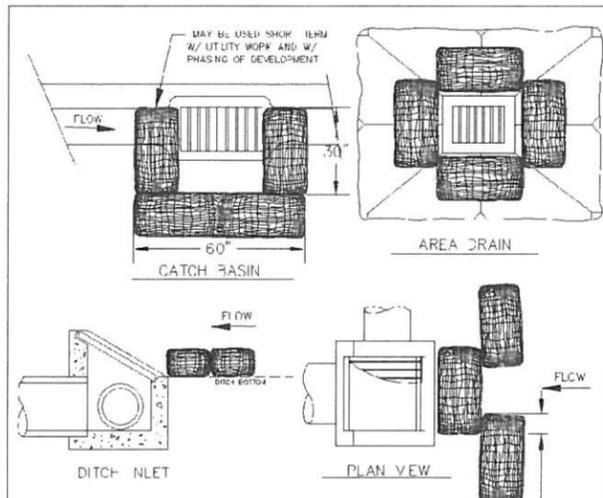
CROSS SECTION B-B



NOTES:

1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.
4. WHERE RUNOFF CONTAINING SEDIMENT LADEN WATER IS LEAVING THE SITE VIA THE CONSTRUCTION ENTRANCE, OTHER MEASURES SHALL BE IMPLEMENTED TO DIVERT RUNOFF THROUGH AN APPROVED FILTERING SYSTEM.
5. **DIMENSIONS**
SINGLE FAMILY
 20' LONG BY 20' WIDE 8" DEEP OF 3/4" MINUS CLEAN ROCK.
COMMERCIAL
 50' LONG BY 20' WIDE 3-6" CLEAN ROCK.
 GOVERNING AUTHORITY MAY REQUIRE GEOTEXTILE FABRIC TO PREVENT SUB-SOIL PUMPING.

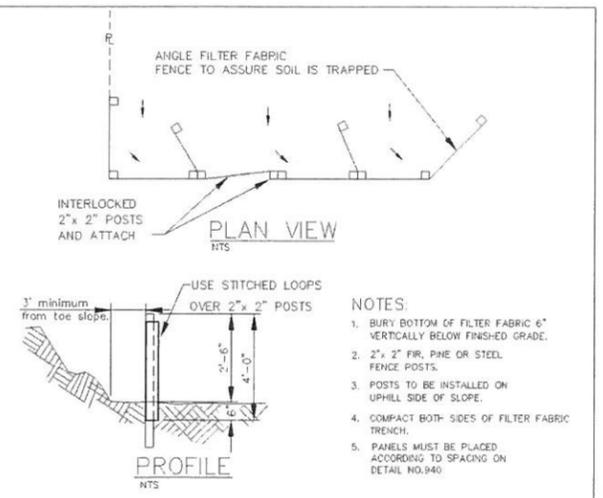
CONSTRUCTION ENTRANCE
 DETAIL DRAWING 4-13 REVISED 01-09



NOTES:

1. ADDITIONAL MEASURES MUST BE CONSIDERED DEPENDING ON SOIL TYPES.
2. BIG-FILTER BAGS SHOULD BE STAKED WHERE APPLICABLE USING (2) 1/2" WOODEN STAKES OR APPROVED EQUIV. PER BAG.
3. WHEN USING 30" BIG-BAGS TO PROTECT A CATCH BASIN YOU MUST HAVE 4 BAGS AND THEY SHALL BE OVERLAPPED BY 6".

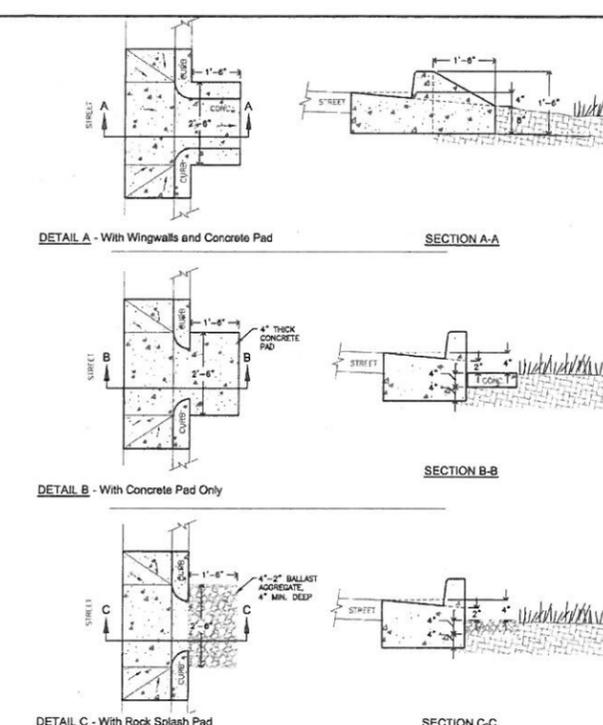
INLET PROTECTION TYPE 4
 DETAIL DRAWING 4-18 REVISED 01-09



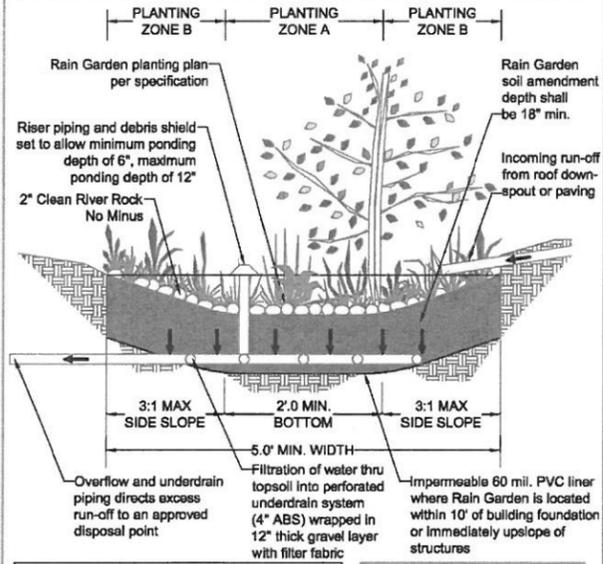
NOTES:

1. BURY BOTTOM OF FILTER FABRIC 6" VERTICALLY BELOW FINISHED GRADE.
2. 2" x 2" FIBER OR STEEL FENCE POSTS.
3. POSTS TO BE INSTALLED ON UPHILL SIDE OF SLOPE.
4. COMPACT BOTH SIDES OF FILTER FABRIC TRENCH.
5. PANELS MUST BE PLACED ACCORDING TO SPACING ON DETAIL NO. 940.

SEDIMENT FENCE
 DETAIL DRAWING 4-23 REVISED 01-09



STORMWATER MANAGEMENT MANUAL TYPICAL DETAILS
 - 2010 Green Streets -
Splash Pad Alternatives
 Curb Inlets
 NUMBER: **SW-332**
 REVISED: 03/05/10



RAIN GARDEN PLANTS

ZONE	BOTANICAL NAME	COMMON NAME
A	CAREX AMPLEXICAULIS	COLUMBIA SEDGE
A	CAREX GIGEA	DENSE SEDGE
A	CAREX PANICULATA	SANDWEDGE SEDGE
A	CAREX TESTACEA	NEW ZEALAND ORANGE SEDGE
A	CAREX TUMULUCOSA	FOOTHILL SEDGE
A	DEICHMANIA CAESPTIOSA	TUFTED HAIR GRASS
A	ELEOCHARIS PALUSTRIS	CREeping SPICE RUSH
A	JUNCUS BALTICUS	BALTIC RUSH
A	JUNCUS EFFRUSUS 'JAPANESE STATION'	COMMON RUSH
A	JUNCUS EFFRUSUS 'CARIBBEAN SKY'	COMMON RUSH
A	JUNCUS PATENS	SPREADING RUSH
B	ARCTOSTAPHYLOS UVA-URSI	KIDNEYBERRY
B	BLECHNUM SPICANT	DEER FERN
B	CORNUS SERICEA 'WIKI-KI'	DWARF REDTIDY DOOWOOD
B	LIRIOPE MURICATA 'BIG BLUE'	BIG BLUE LILY TURF
B	GAUTHERIA SHALLOON	SALAL
B	MAHONIA NEROSA	LOW OREGON GRAPE
B	MAHONIA REPENS	CREeping OREGON GRAPE

RAIN GARDEN SURFACE AREA - TOTAL IMPERVIOUS AREA x 0.06

NOTE: PLANT 1 GALLON POTS 18" O.C. IN EACH ZONE. A MINIMUM OF 3 SPECIES SHALL BE USED IN EACH ZONE.

INFILTRATION RAIN GARDEN TYPE 1

DATE: 2010
 DRAWING NO: WL-617A
 FILE NO.

THE NATIVE SOIL IN THE TOP 18 INCHES OF ALL STORM WATER PLANTERS SHALL BE AMENDED WITH A MIX OF ONE PART IMPORTED ORGANIC COMPOST AND ONE PART GRAVELLY SAND, SUCH THAT THERE ARE EQUAL PARTS COMPOST, SAND AND NATIVE SOIL. THIS WILL REQUIRE THE STORMWATER PLANTER AREA TO BE OVER EXCAVATED BY APPROXIMATELY 12 INCHES PRIOR TO ADDING SAND AND COMPOST. THE SPECIFICATIONS INCLUDED HEREIN SHALL BE USED FOR THIS PURPOSE AND INCLUDED ON THE PERMIT PLANS. THE MIX SHALL BE THOROUGHLY TILLED TOGETHER ON SITE, AND SHALL BE CAPABLE OF INFILTRATING WATER WITHOUT PROLONGED PONDING ON THE SURFACE. IF SUCH PONDING OCCURS, ORGANIC COMPOST AND SAND MUST BE ADDED AND RE-TILLED UNTIL INFILTRATION PERFORMANCE IS ENHANCED. A 2-INCH LAYER OF BRANDED BARK MULCH (NOT BARK DUST OR BARK CHIPS) SHALL BE USED OVER THE AMENDED SOIL AND BETWEEN THE PLANTINGS TO COMPLETELY COVER THE SOIL AND PREVENT EROSION OR WEED INTRUSION.

ORGANIC COMPOST
 ORGANIC COMPOST SHALL HAVE THE FOLLOWING PROPERTIES:
 100% SHALL PASS A 3/8" SCREEN.
 PH BETWEEN 5.5 AND 7.0.
 CARBON/NITROGEN RATIO BETWEEN 20:1 AND 30:1 (35:1 ON RATIO RECOMMENDED FOR NATIVE PLANTS).
 ORGANIC MATTER CONTENT BETWEEN 40 AND 50 PERCENT.

ORGANIC COMPOST MAY CONSIST OF THE FOLLOWING:
MUSHROOM COMPOST - THE USED BEDDING MATERIAL FROM COMMERCIAL MUSHROOM PRODUCTION.
COMPOSTED YARD DEBRIS - COMMERCIALLY MANUFACTURED MATERIAL, MADE FROM DEAD PLANT MATERIAL SUCH AS GRASS CLIPPINGS, WEEDS, GREEN AND DEAD DRY LEAVES, GARDEN AND VEGETABLE MATERIAL, AND GROUND BRANCHES OF TREES AND SHRUBS. FURNISH A PRODUCT THAT IS COMPOSTED UNDER CONTROLLED AEROBIC DECOMPOSITION, WITH THE INTERNAL TEMPERATURE REACHING 67°C (153°F) FOR 15 DAYS, WITHOUT EXCEEDING 68°C (150°F). ENSURE THAT IT CONTAINS A MAXIMUM OF 10% BACTERIA AND 10% FUNGUS.
PEAT MOSS - HORTICULTURAL GRADE, NATURAL PEAT MOSS IN AIR-DRY CONDITION, FREE FROM WOODY SUBSTANCES. IN BALES OR BAGS LABELED FOR CONTENT AND VOLUME. ONLY PEAT MOSS USED IN COMBINATION WITH ONE OF THE ABOVE COMPOSTS IS ACCEPTABLE.

GRAVELLY SAND
 GRAVELLY SAND SHALL BE FREE OF ORGANIC MATERIAL, CONTAMINANTS, AND HAZARDOUS MATERIALS, AND SHALL CONFORM TO THE FOLLOWING GRADATION:

U.S. SIEVE SIZE	PERCENT PASSING
2-INCH	100
1/2-INCH	70-100
3/8-INCH	50-80
NO. 40	15-40
NO. 200	0-3

USING
 MIX COMPOST, SAND AND NATIVE SOIL TO A HOMOGENEOUS CONSISTENCY. DO NOT MIX COMPOST, SAND, AND NATIVE SOIL IN THE RAIN OR WET CONDITIONS.

STORAGE
 STORE STOCK PILES OF ORGANIC SOIL MIX IN A MANNER THAT PREVENTS IT FROM BECOMING WET FROM RAIN, STORM WATER RUNOFF, OR OTHER SOURCES OF WATER. COVER WITH FINE SOIL OR OTHER UNDESIRABLE MATERIALS. ALL STOCKPILES OF MIXED SOIL MATERIAL SHALL BE PROTECTED AND COVERED.

PLACEMENT
 PLACE AMENDED SOIL MIX IN RAIN GARDENS AND STORMWATER PLANTERS IN LIFTS NOT EXCEEDING 8 INCHES IN LOOSE THICKNESS. AFTER ALL LIFTS HAVE BEEN PLACED, GRADE SOIL TO FINISH GRADES AS SPECIFIED ON THE PLANS. DO NOT OVER COMPACT SOIL MIX WITH MECHANICAL EQUIPMENT AFTER PLACEMENT.

MULCH
 BRANDED BARK MULCH (NOT BARK DUST OR BARK CHIPS) SHALL BE USED IN A 2-INCH LAYER MINIMUM OVER THE AMENDED SOIL MIX AND BETWEEN THE PLANTINGS TO COMPLETELY COVER THE SOIL AND PREVENT EROSION OR WEED INTRUSION.

INFILTRATION TESTING
 WET THE SURFACE OF THE RAIN GARDEN OR STORMWATER PLANTER WITH A SPRINKLER OR HOSE UNTIL SATURATED. SMALL RAIN GARDENS AND PLANTERS (<100 SQUARE IN SURFACE) AREA CAN BE TESTED FULL-SCALE, WHILE LARGE RAIN GARDENS AND PLANTERS CAN UTILIZE ISOLATED FALLING HEAD TEST (MINIMUM 2 PER 100 SQUARE FEET OF AREA). FILL THE TESTING AREA TO A DEPTH OF 4 INCHES AND TRACK THE TIME IT TAKES TO COMPLETELY DRAW DOWN. REPEAT TEST 3 TIMES. IF THE WATER IN ANY OF THE TEST FAILS TO DRAW DOWN IN LESS THAN AN HOUR, ADD COMPOST AND GRAVELLY SAND TO THE MIX AND RE-TEST. REPEAT THIS PROCEDURE UNTIL FAVORABLE TEST RESULTS ARE ACHIEVED.

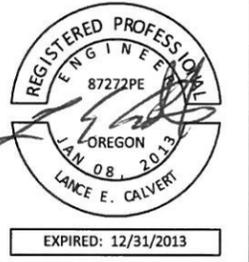
FILTER FABRIC
 LING 125EX; THIS 5040; THE 9030; THE 9040; AMOOC 4630; MARAFI 140N.

SOIL AMENDMENT AND MULCH SPECIFICATION

DATE: 2010
 DRAWING NO: WL-617B
 FILE NO.



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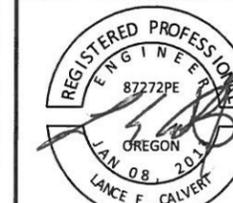
CONTRACTOR
 NAME: -N/A
 ADDRESS: -N/A
 PHONE: -N/A
 FAX: -N/A

Library Parking Expansion
 Erosion Control Details

PROJECT NO.: PW-13-08
 DESIGNED BY: KLE
 DRAWN BY: KLE
 CHECKED BY: L CALVERT
 DATE: JULY 1, 2013

REVISION
 DATE DESCRIPTION

EROSION CONTROL DETAILS
C4.3



EXPIRED: 12/31/2013

CONTRACTOR

NAME: -N/A

ADDRESS: -N/A

PHONE: -N/A

FAX: -N/A

Library Parking Expansion

Keystone Retaining Wall Installation Detail

PROJECT NO.: PW-13-08
DESIGNED BY: KLE
DRAWN BY: KLE
CHECKED BY: LCAVERT
DATE: JULY 1, 2013

REVISION

DATE	DESCRIPTION

KEYSTONE WALL

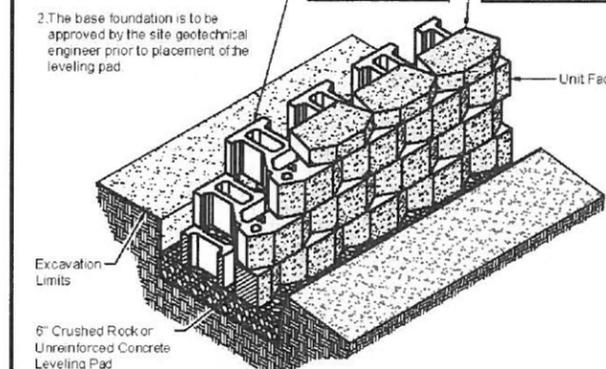
C4.4

Base Leveling Pad Notes:

1. The leveling pad is to be constructed of crushed stone or 2,000 psi unreinforced concrete

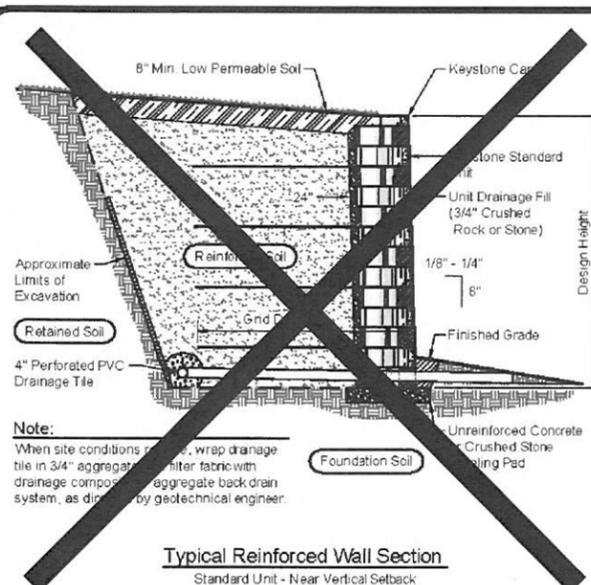
2. The base foundation is to be approved by the site geotechnical engineer prior to placement of the leveling pad

	Standard Unit	Cap Unit
*Width:	18"	18"
*Depth:	2 1/2"	10 1/2"
*Height:	8"	4"
*Weight:	115 lbs	45 lbs



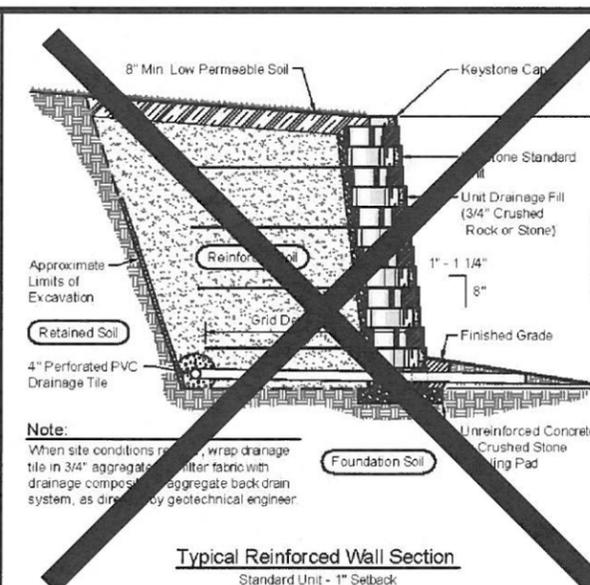
Standard Unit/Base Pad Isometric Section View

*Dimensions & Weight May Vary by Region



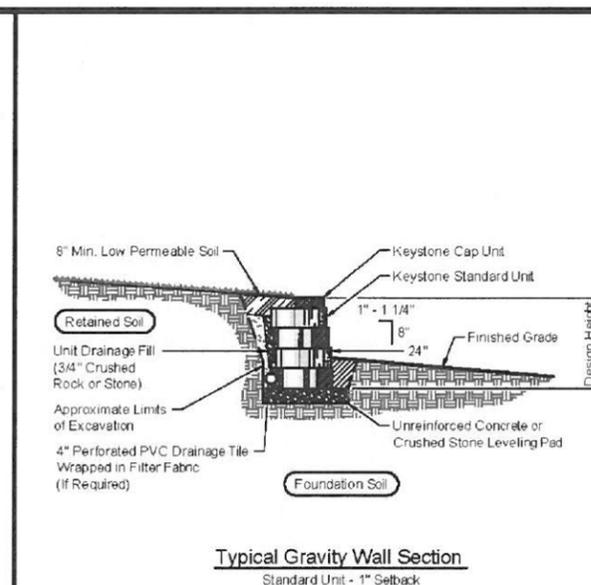
Typical Reinforced Wall Section

Standard Unit - Near Vertical Setback



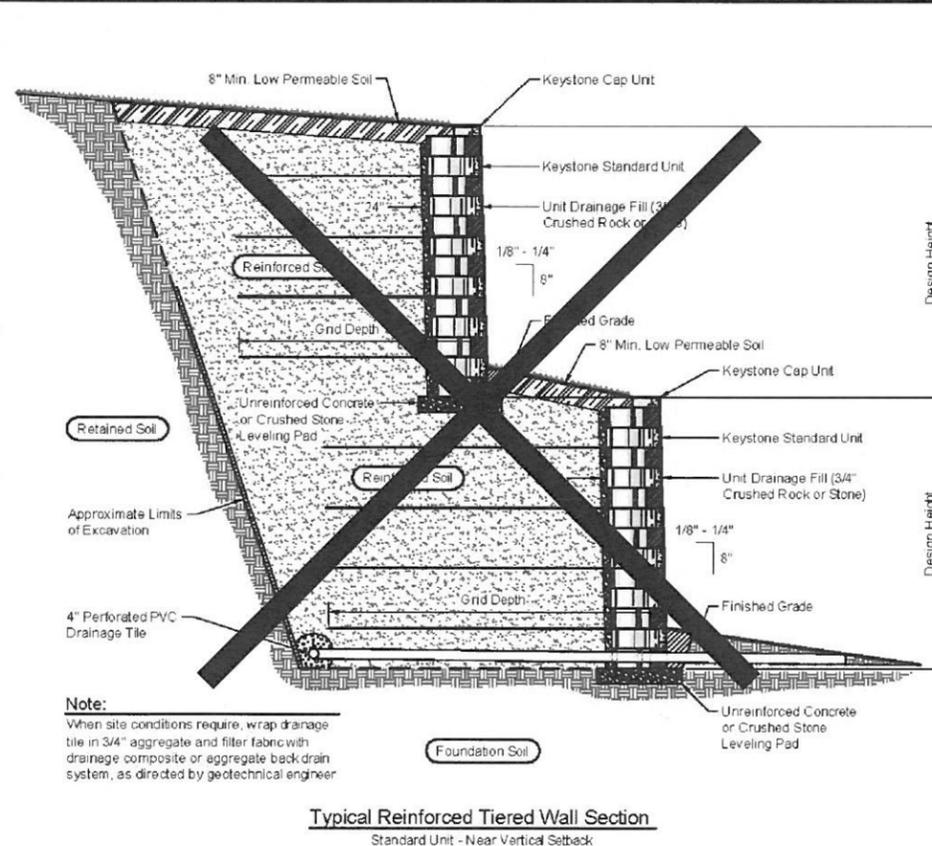
Typical Reinforced Wall Section

Standard Unit - 1" Setback



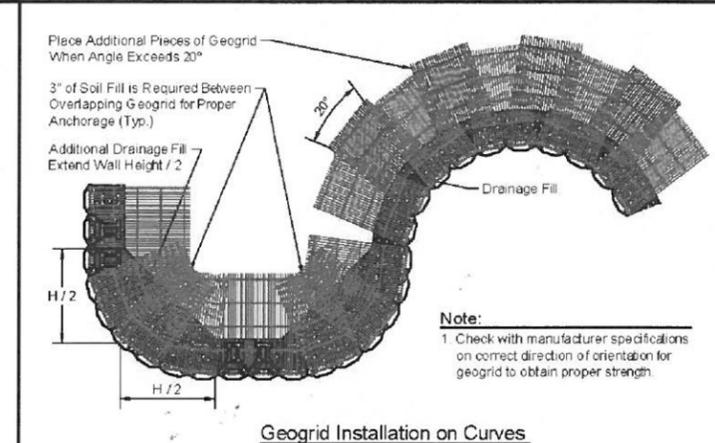
Typical Gravity Wall Section

Standard Unit - 1" Setback

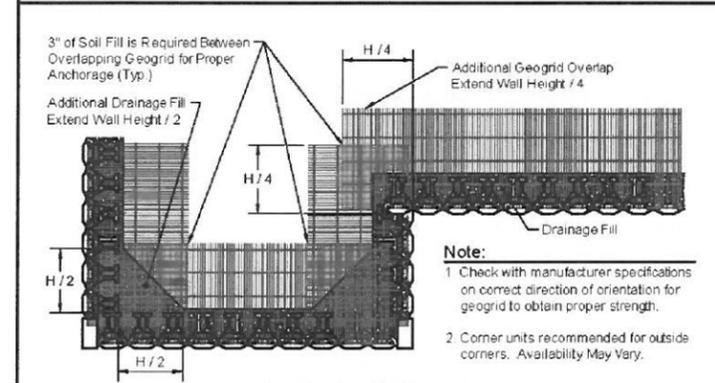


Typical Reinforced Tiered Wall Section

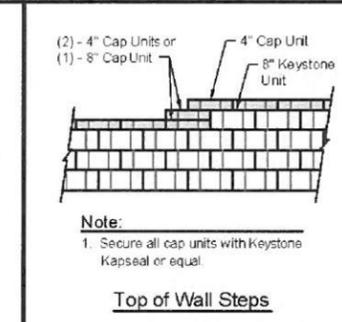
Standard Unit - Near Vertical Setback



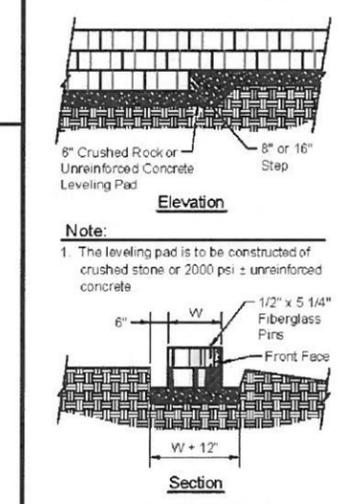
Geogrid Installation on Curves



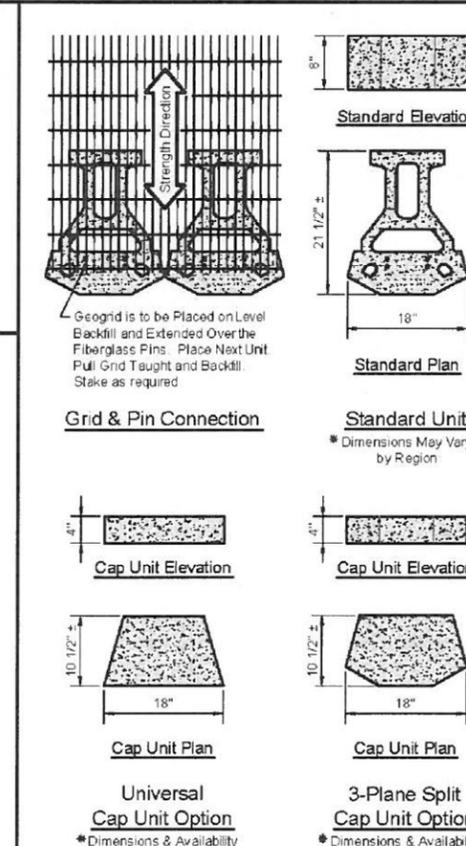
Geogrid Installation at Corners



Top of Wall Steps



Leveling Pad Detail



Grid & Pin Connection

Universal Cap Unit Option

*Dimensions & Availability Will Vary by Region

3-Plane Split Cap Unit Option

*Dimensions & Availability Will Vary by Region

Copyright 2003 Keystone Retaining Wall Systems

Design is for internal stability of the KEYSTONE wall structure only. External stability, including but not limited to foundation and slope stability is the responsibility of the Owner. The design is based on the assumption that the materials within the retained mass, methods of construction, and quality of materials conform to KEYSTONE's specification for this project.

This drawing is being furnished for this specific project only. Any party accepting this document does so in confidence and agrees that it shall not be duplicated in whole or in part, nor disclosed to others without the consent of Keystone Retaining Wall Systems, Inc.

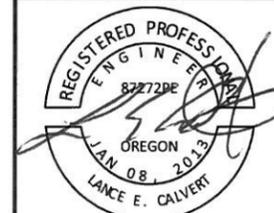
No	Date	Revision	By



Designed By: RKM	Title: Standard Unit 21 - Tri Plane Face Details	Date:
Checked By: CDM	Project: Keystone Retaining Wall Systems	Project No:
Scale: No Scale	Typical Wall Details	Drawing No:



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EXPIRED: 12/31/2013

CONTRACTOR

NAME: -N/A
 ADDRESS: -N/A
 PHONE: -N/A
 FAX: -N/A

Library Parking Expansion

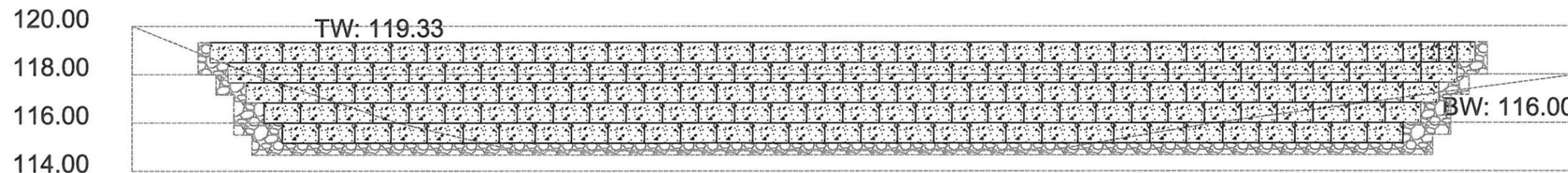
KEYSTONE WALL PROFILE

PROJECT NO.:
 DESIGNED BY: KLE
 DRAWN BY: KLE
 CHECKED BY: LCALVERT
 DATE:

REVISION	
DATE	DESCRIPTION

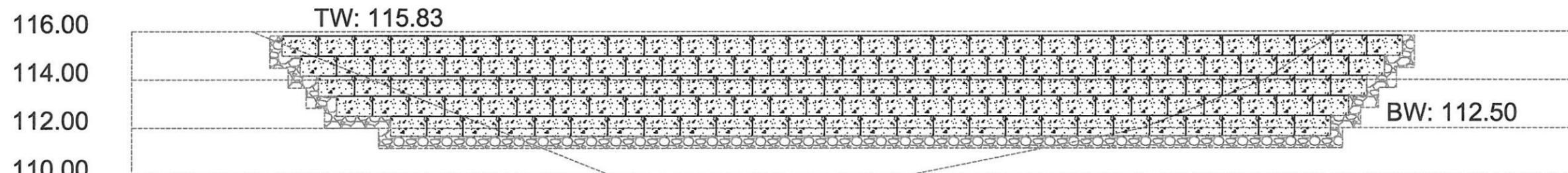
WALL PROFILE

C4.5



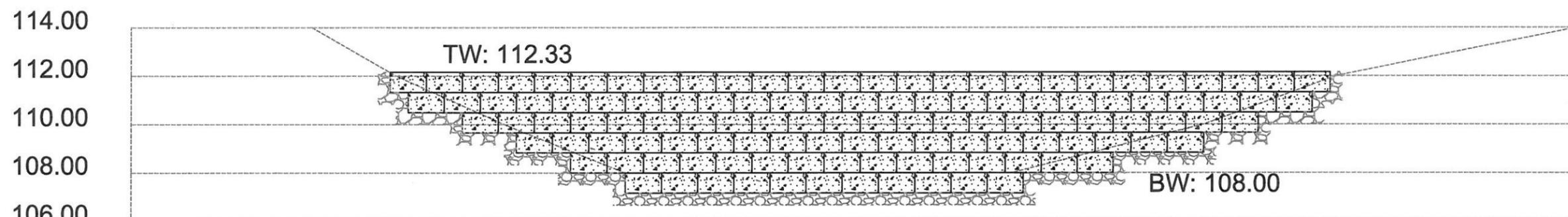
6" Crushed Rock Leveling Pad Per Keystone Specs.

THIRD TIER KEYSTONE WALL PROFILE



6" Crushed Rock Leveling Pad Per Keystone Specs.

SECOND TIER KEYSTONE WALL PROFILE



6" Crushed Rock Leveling Pad Per Keystone Specs.

FIRST TIER KEYSTONE WALL PROFILE



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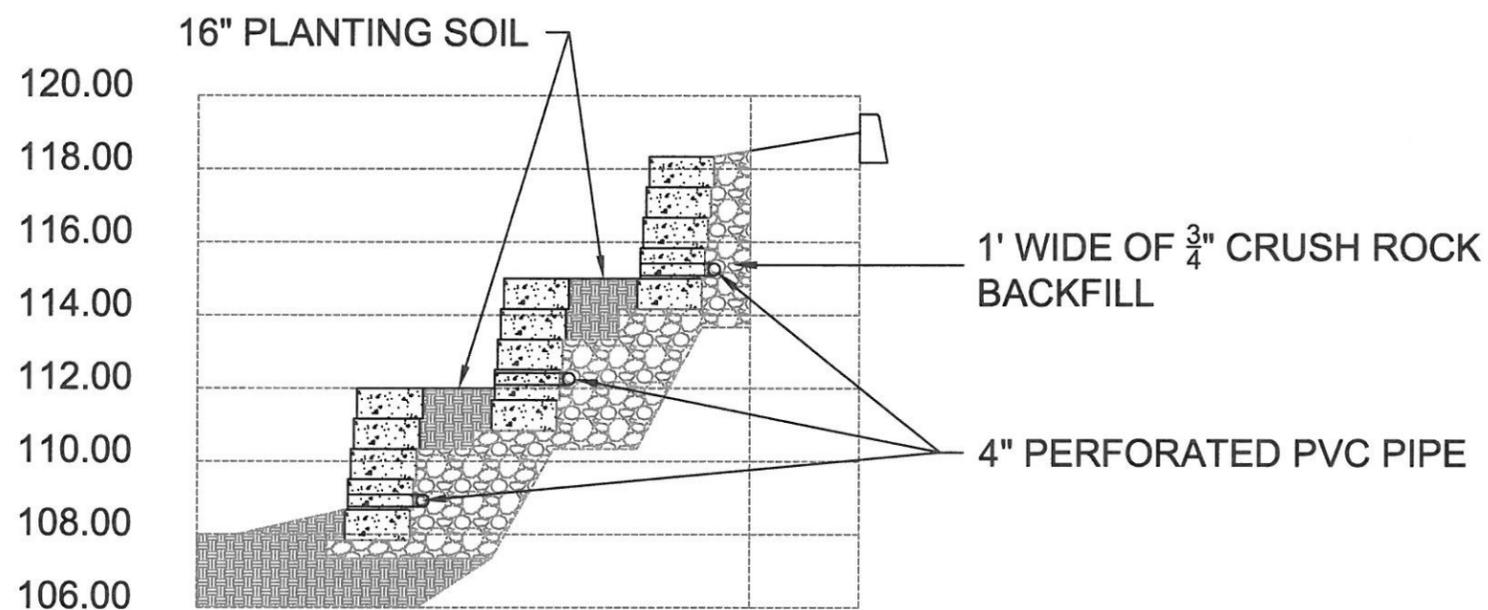
KEYSTONE WALL CROSS SECTION A-A

PROJECT NO.:
 DESIGNED BY: KLE
 DRAWN BY: KLE
 CHECKED BY: LCALVERT
 DATE:

REVISION
 DATE DESCRIPTION

KEYSTONE WALL CROSS SECTION
 A-A

C4.6



CROSS SECTION A-A

CONSTRUCTION NOTES

- 1 INSTALL LIGHT POLE AND FIXTURE (LP-1)
SEE DETAIL TABLE FOR INFORMATION.
- 2 REPLACE EXISTING PARKING LOT LIGHT BULB
(6) WITH LED LIGHT BULB.

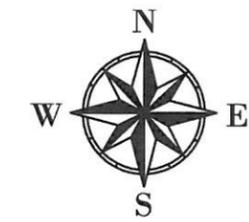
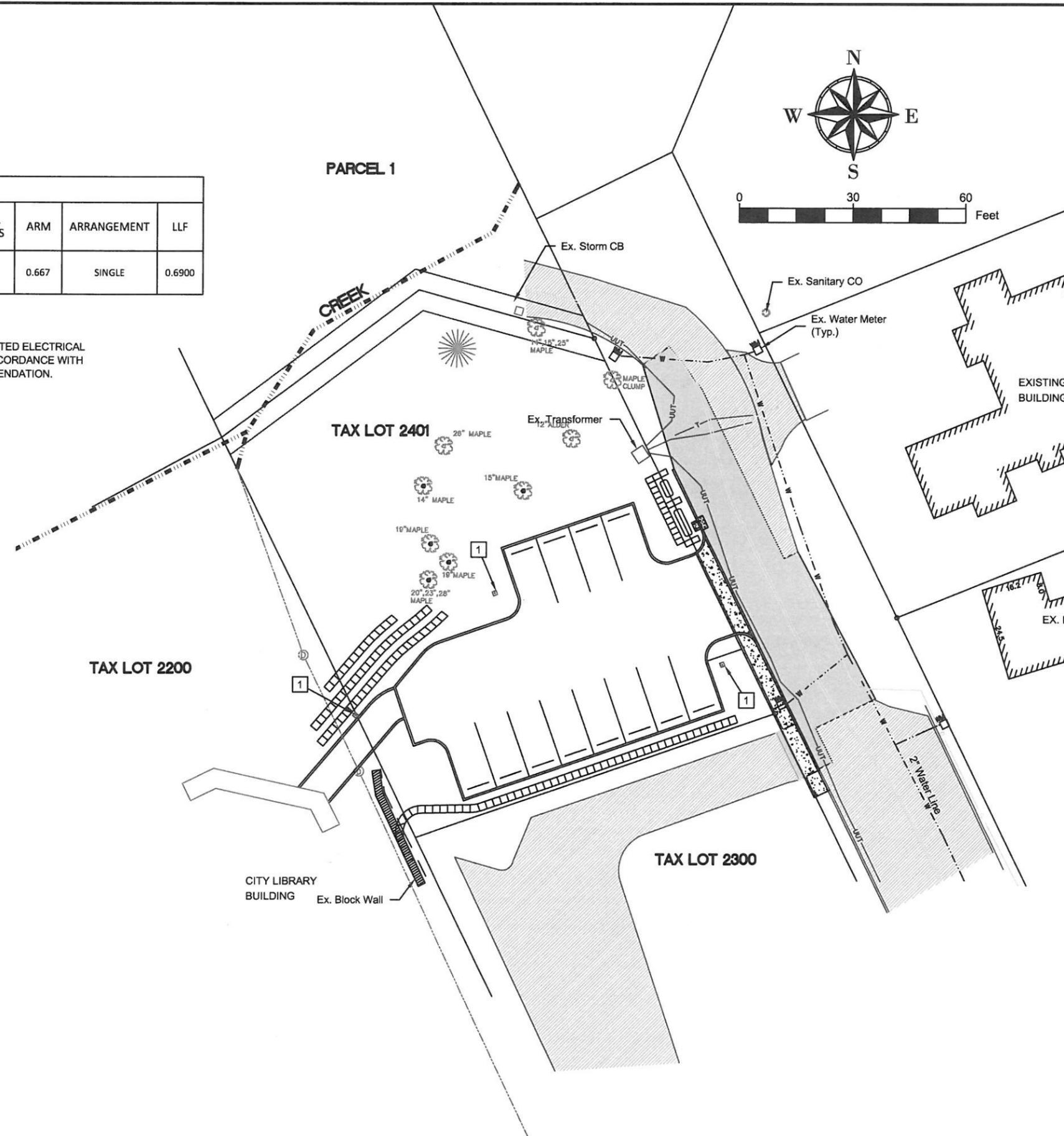
LUMINAIRE SCHEDULE								
QTY	LABEL	DESCRIPTION	MH	WATTS	INITIAL LUMENS	ARM	ARRANGEMENT	LLF
3	LP-1	MH, GARDCO 'FORM 10 ROUND LED' LUMINAIRE MOUNTED ON A METAL POLE WITH AN INTERNAL HOUSE INSIDE SHIELD	17	150	12500	0.667	SINGLE	0.6900

NOTE:

CONTRACTOR TO INSTALL FIXTURES, ALL ASSOCIATED ELECTRICAL WIRING, AND CONNECT TO EXISTING LIBRARY IN ACCORDANCE WITH ELECTRICAL CODE AND MANUFACTURERS RECOMMENDATION.



ROUND 10 FORM LIGHT FIXTURE



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Library Parking Expansion

Lighting Plan

PROJECT NO.: PW-13-08
DESIGNED BY: KLE
DRAWN BY: KLE
CHECKED BY: LCALVERT
DATE: JULY 1, 2013

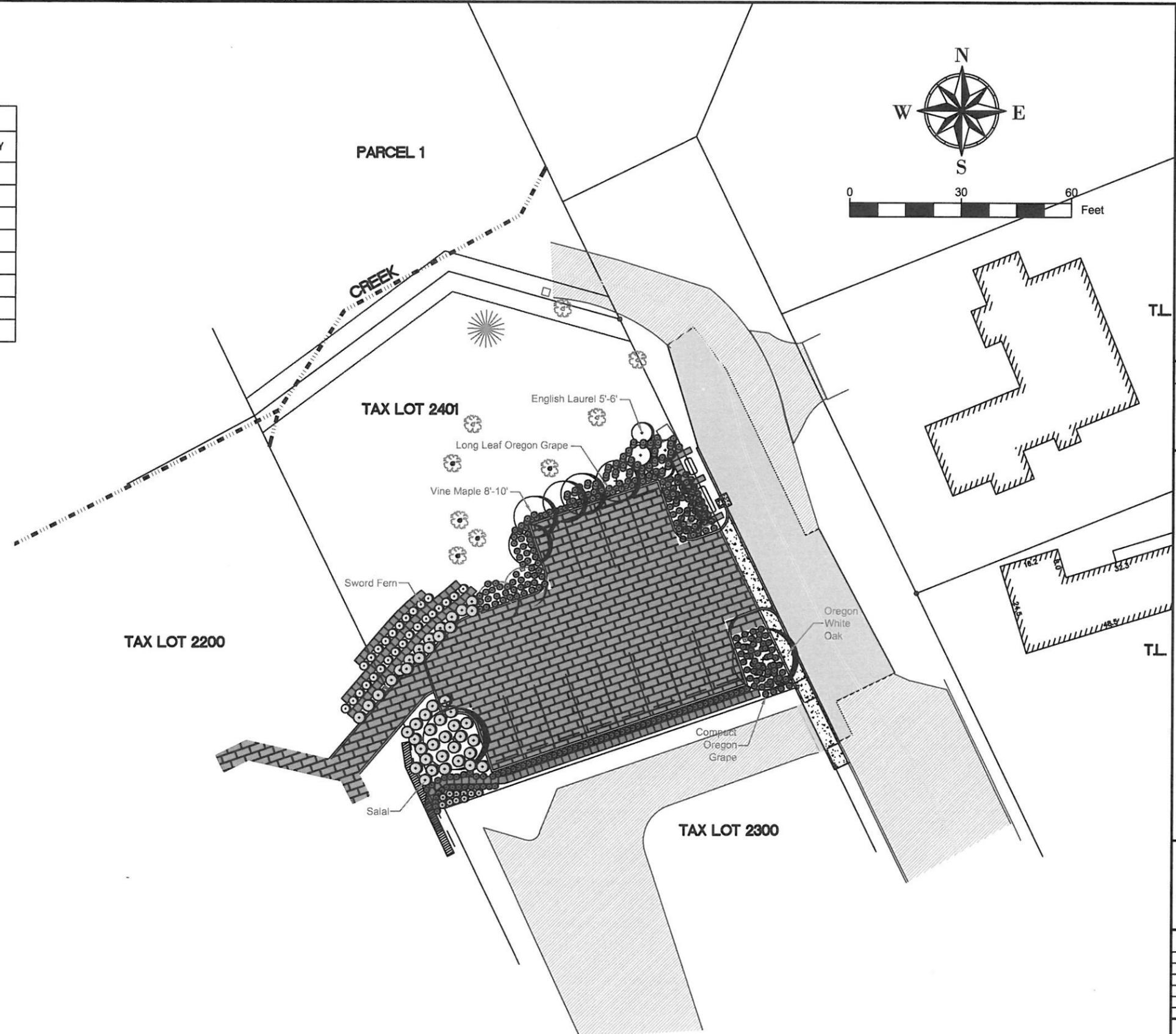
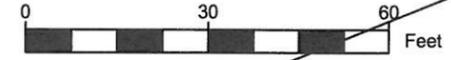
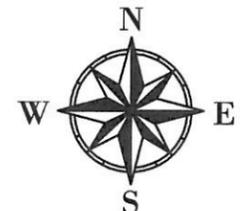
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DATE	DESCRIPTION

LIGHTING
C5.1



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PLANTING INDEX		
SPECIES	SIZE	QUANTITY
Oregon White Oak	2" Caliper	2
Compacted Oregon Grape	1 Gallon	58
Long Leaf Oregon Grape	1 Gallon	137
Vine Maple	8'-10'	6
Sword Fern	1 Gallon	18
Salal	1 Gallon	66
Tall Oregon Grape	1 Gallon	3
English Laurel	5'-6'	6



CONTRACTOR
 NAME: -N/A
 ADDRESS: -N/A
 PHONE: -N/A
 FAX: -N/A

Library Parking Expansion
 Landscape Plan

PROJECT NO.: PW-13-08
 DESIGNED BY: KLE
 DRAWN BY: KLE
 CHECKED BY: LCALVERT
 DATE: JULY 1, 2013

REVISION	
DATE	DESCRIPTION

LANDSCAPE
C6.1